

[illegible][illegible]

I-ET-3000.00-1200-941-TKP-002 REV.G - SYMBOLS AND ABBREVIATIONS.
I-DE-3010.63-1231-943-PPC-001 REV.D - GAS COMPRESSION SYSTEM
(MAXIMUM OIL/GAS)


EQUIPMENT			
TAG	DESCRIPTION	TYPE	CAPACITY (NOTES 1,3)
C-UC-123101/A/C (3x500)	GAS COMPRESSION UNIT COMPRESSOR	CENTRIFUGAL	2,000.000m ³ /d
P-UC-123101/A/C-01 (3x500)	GAS COMPRESSION UNIT 1st STAGE INLET COOLER	SHELL AND TUBE	18.80 x 10 ⁶ W
P-UC-123101/A/C-02 (3x500)	GAS COMPRESSION UNIT 1st STAGE AFTERCOOLER	SHELL AND TUBE	8.46 x 10 ⁶ W
P-UC-123101/A/C-03 (3x500)	GAS COMPRESSION UNIT 2nd STAGE COOLER	SHELL AND TUBE	4.69 x 10 ⁶ W
P-UC-123101/A/C-04 (3x500)	GAS COMPRESSION UNIT DISCHARGE	SHELL AND TUBE	5.66 x 10 ⁶ W
V-123101 (1x1000)	SAFETY GAS K.O.DRUM	VERTICAL	60000000m ³ /d
V-UC-123101/A/C-01 (3x500)	1st STAGE INLET GAS K.O.DRUM	VERTICAL	2,000.000m ³ /d
V-UC-123101/A/C-02 (3x500)	1st STAGE DISCHARGE GAS K.O.DRUM	VERTICAL	2,000.000m ³ /d
V-UC-123101/A/C-03 (3x500)	2nd STAGE DISCHARGE GAS K.O.DRUM	VERTICAL	2,000.000m ³ /d
V-UC-123101/A/C (3x500)	GAS COMPRESSION UNIT	-	2,000.000m ³ /d
LP-122302 (1x1000)	GAS PIPELINE PIPI LAUNCHER	-	-
LP/PRP-122304/A/B (2x1000)	GAS PIPELINE PIPI LAUNCHER/RECEIVER	-	-

1 - THE PERFORMANCE CHARACTERISTICS OF EQUIPMENTS AND SYSTEMS, AS SHOWN ON THE UPPER PART OF THIS DRAWING, ARE DESIGN DATA AND MAY NOT AGREE WITH THE BALANCE INFORMATION HEREUNDER WHICH ARE ACTUAL EQUILIBRIUM VALUES.

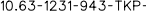
- 3 - THE PERFORMANCE CHARACTERISTICS OF EQUIPMENTS AND SYSTEMS, AS SHOWN ON THE UPPER PART OF THIS DRAWING, ARE DESIGN DATA AND MAY NOT AGREE WITH THE BALANCE INFORMATION HEREUNDER WHICH ARE ACTUAL EQUILIBRIUM VALUES.
- 2 - TP VANE TYPE MIST ELIMINATOR.
- 3 - GAS CAPACITY AT 20°C AND 101.3 kPa abs.
- 4 - THIS FLOW SHOWS WATER PRESENT ONLY IN THE LIQUID PHASE, THIS VALUE MUST BE CORRECTED TO SEA WATER DENSITY EQUAL AT 1030 kg/m³.
- 5 - OIL VOLUMETRIC FLOW RATE AND OIL DENSITY ARE THE ACTUAL VALUES IN DRY BASIS.
- 6 - GAS FLOW RATE AT PRESSURE AND TEMPERATURE OPERATION CONDITIONS.
- 7 - CHARACTERISTICS OF FRACTIONS:
C12° FROM 3-MLS-2-RIS: PM-654, API=6.5
C20°FROM 4-RJS-0442: PM=479, API=6.7
- 8 - MASS AND ENERGY BALANCE REFERENCES TO YEAR 2007 (MAXIMUM OIL/GAS).
- 9 - FOR FINAL FIGURE SEE NUOVO PIGNONE DOCUMENTS:
I-DE-3010.63-1231-944-NOQ-003 - PROCESS FLOW DIAGRAM E MATERIAL BALANCE.
I-DE-3010.63-1231-944-NOQ-004 - PROCESS GAS COMPRESSION UNIT SYSTEM P&ID.

REV.	FOR PNBV DOCUMENT	19/JAN/05	EMXGEC	RSMPAD	REAROSS
0	PNBV DESCRIPTION	DATOS	INVOCE	CHECK	APPROB.

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FSTP
Pte. Ltd.



Technip
TECHNIP ENGINEERING SUA

TEP No. 1

B20257-T00T-1232-PPF-001

899.2.010.03-9

TECHNICAL RECIP. 1


Roberto Jourdan Aquino

INITIALS: RAD

CREA REC. No. 1

48748-D

F116 PNBV MICROSTATION 7.51/D-300.63/1231-943-TWP-001.DGN



PETROBRAS
NETHERLANDS B.V.

ENGENHARIA / IEMS

CLIENT OR USER: UN - RIO / ATP - MLS

JOB OR PROJECT: MARLIM SUL FIELD DEVELOPMENT

AREA OR UNIT: PETROBRAS 51 (P-51)

TITLE: PROCESS FLOW DIAGRAM
GAS COMPRESSION SYSTEM
(MAXIMUM OIL/GAS)

DESIGN BY: TKP	DRAWN BY:	CHECKED BY:	APPROVED BY:
SCALE: NO SCALE	DRAWING TYPE: A1	CC:	SHEET 1 of 1
DATE: 19/JAN/05	PB N ^o .: I-DE-3010.63-1231-943-TKP-001		